

特許協力条約

PCT

国際予備審査報告

(法第12条、法施行規則第56条)
〔PCT36条及びPCT規則70〕REC'D 29 JAN 1999
WIPO PCT

出願人又は代理人 の書類記号 K97-0879	今後の手続きについては、国際予備審査報告の送付通知（様式PCT/IPEA/416）を参照すること。	
国際出願番号 PCT/JP97/03702	国際出願日 (日.月.年) 14.10.97	優先日 (日.月.年) 18.10.96
国際特許分類 (IPC) Int. Cl. H04H1/00		
出願人（氏名又は名称） 三洋電機株式会社		

1. 国際予備審査機関が作成したこの国際予備審査報告を法施行規則第57条（PCT36条）の規定に従い送付する。

2. この国際予備審査報告は、この表紙を含めて全部で 3 ページからなる。

この国際予備審査報告には、附属書類、つまり補正されて、この報告の基礎とされた及び／又はこの国際予備審査機関に対して訂正を含む明細書、請求の範囲及び／又は図面も添付されている。
(PCT規則70.16及びPCT実施細則第607号参照)
この附属書類は、全部で 5 ページである。

3. この国際予備審査報告は、次の内容を含む。

- I 国際予備審査報告の基礎
- II 優先権
- III 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成
- IV 発明の単一性の欠如
- V PCT35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
- VI ある種の引用文献
- VII 国際出願の不備
- VIII 国際出願に対する意見

国際予備審査の請求書を受理した日 /3.04.98	国際予備審査報告を作成した日 18.01.99
名称及びあて先 日本国特許庁 (IPEA/JP) 郵便番号100-8915 東京都千代田区霞が関三丁目4番3号	特許庁審査官（権限のある職員） 畠中 博幸 電話番号 03-3581-1101 内線 3536

I. 国際予備審査報告の基礎

1. この国際予備審査報告は下記の出願書類に基づいて作成された。(法第6条(PCT14条)の規定に基づく命令に応答するために提出された差し替え用紙は、この報告書において「出願時」とし、本報告書には添付しない。PCT規則70.16, 70.17)

<input type="checkbox"/> 出願時の国際出願書類		
<input checked="" type="checkbox"/> 明細書 第 <u>1~2, 4~22</u> ページ、	出願時に提出されたもの	
明細書 第 _____ ページ、	国際予備審査の請求書と共に提出されたもの	
明細書 第 <u>3, 3/1</u> ページ、	<u>17.09.98</u> 付の書簡と共に提出されたもの	
<input checked="" type="checkbox"/> 請求の範囲 第 <u>2~5</u> 項、	出願時に提出されたもの	
請求の範囲 第 _____ 項、	PCT19条の規定に基づき補正されたもの	
請求の範囲 第 _____ 項、	国際予備審査の請求書と共に提出されたもの	
請求の範囲 第 <u>1, 6~10</u> 項、	<u>17.09.98</u> 付の書簡と共に提出されたもの	
<input checked="" type="checkbox"/> 図面 第 <u>1~14</u> ページ、	出願時に提出されたもの	
図面 第 _____ ページ、	国際予備審査の請求書と共に提出されたもの	
図面 第 _____ ページ、	付の書簡と共に提出されたもの	
<input type="checkbox"/> 明細書の配列表の部分 第 _____ ページ、	出願時に提出されたもの	
明細書の配列表の部分 第 _____ ページ、	国際予備審査の請求書と共に提出されたもの	
明細書の配列表の部分 第 _____ ページ、	付の書簡と共に提出されたもの	

2. 上記の出願書類の言語は、下記に示す場合を除くほか、この国際出願の言語である。

上記の書類は、下記の言語である _____ 語である。

國際調査のために提出されたPCT規則23.1(b)にいう翻訳文の言語
 PCT規則48.3(b)にいう国際公開の言語
 国際予備審査のために提出されたPCT規則55.2または55.3にいう翻訳文の言語

3. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際予備審査報告を行った。

この国際出願に含まれる書面による配列表
 この国際出願と共に提出されたフレキシブルディスクによる配列表
 出願後に、この国際予備審査(または調査)機関に提出された書面による配列表
 出願後に、この国際予備審査(または調査)機関に提出されたフレキシブルディスクによる配列表
 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった
 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述書の提出があった。

4. 補正により、下記の書類が削除された。

明細書 第 _____ ページ
 請求の範囲 第 _____ 項
 図面 図面の第 _____ ページ/図

5. この国際予備審査報告は、補充欄に示したように、補正が出願時における開示の範囲を越えてされたものと認められるので、その補正がされなかったものとして作成した。(PCT規則70.2(c) この補正を含む差し替え用紙は上記1.における判断の際に考慮しなければならず、本報告に添付する。)

V. 新規性、進歩性又は産業上の利用可能性についての法第12条（PCT35条(2)）に定める見解、それを裏付ける文献及び説明

1. 見解

新規性 (N)

請求の範囲 1 ~ 10 有
請求の範囲 _____ 無

進歩性 (I S)

請求の範囲 1 ~ 10 有
請求の範囲 _____ 無

産業上の利用可能性 (I A)

請求の範囲 1 ~ 10 有
請求の範囲 _____ 無

2. 文献及び説明 (PCT規則70.7)

<発明の開示>

この発明によるFM多重放送受信機におけるデータ処理方法は、番組再構成が行われたデータを表示する際には、符号データに対して符号系にしたがった復号を行うとともにFM多重放送の独特の仕様を理解しなくとも復号できる中間コードを生成し、中間コードを復号した後に表示制御処理を行うようにしたことを特徴とする。

符号データを復号して中間コードを生成する際、復号された文字図形データの属性の有無を判別し、属性なしの中間コードと属性ありの中間コードとに分類することが好ましい。

10 文字に対する中間コードには、属性なしの文字に対する中間コードと属性ありの文字に対する中間コードとがあり、属性なしの文字に対する中間コードは、たとえば、属性なしの文字を表すコード、表示位置、文字サイズおよび文字コードからなり、属性ありの文字に対する中間コードは、たとえば、属性ありの文字を表すコード、表示位置、文字サイズ、文字コード、フォント属性および表示属性
15 からなる。

一層フォトグラフィックに対する中間コードには、属性なしの一層フォトグラフィックに対する中間コードと属性ありの一層フォトグラフィックに対する中間コードとがあり、属性なしの一層フォトグラフィックに対する中間コードは、たとえば、属性なしの一層フォトグラフィックを表すコード、表示位置、サイズおよびデータからなり、属性ありの一層フォトグラフィックに対する中間コードは、たとえば、属性ありの一層フォトグラフィックを表すコード、表示位置、サイズ、データおよび表示属性からなる。

外字符号集合に対する中間コードには、属性なしの外字符号集合に対する中間コードと属性ありの外字符号集合に対する中間コードがあり、属性なしの外字符号集合に対する中間コードは、たとえば、属性なしの外字符号集合を表すコード、表示位置、文字サイズおよびデータからなり、属性ありの外字符号集合に対する中間コードは、たとえば、属性ありの外字符号集合を表すコード、表示位置、

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文字サイズ、データ、フォント属性および表示属性からなる。

ジオメトリック描画命令に対する中間コードには、たとえば、点描画命令、直線描画命令、長方形描画命令、多角形描画命令および円・円弧描画命令に対する

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請求の範囲

1. (補正後) 番組再構成が行われたデータを表示する際には、符号データに対して符号系にしたがった復号を行うとともにFM多重放送の独特の仕様を理解しなくても復号できる中間コードを生成し、中間コードを復号した後に表示制御処理を行うようにしたFM多重放送受信機におけるデータ処理方法。
2. 文字に対する中間コードには、属性なしの文字に対する中間コードと属性ありの文字に対する中間コードとがあり、属性なしの文字に対する中間コードは、属性なしの文字を表すコード、表示位置、文字サイズおよび文字コードからなり、属性ありの文字に対する中間コードは、属性ありの文字を表すコード、表示位置、文字サイズ、文字コード、フォント属性および表示属性からなる請求項1に記載のFM多重放送受信機におけるデータ処理方法。
3. 一層フォトグラフィックに対する中間コードには、属性なしの一層フォトグラフィックに対する中間コードと属性ありの一層フォトグラフィックに対する中間コードとがあり、属性なしの一層フォトグラフィックに対する中間コードは、属性なしの一層フォトグラフィックを表すコード、表示位置、サイズおよびデータからなり、属性ありの一層フォトグラフィックに対する中間コードは、属性ありの一層フォトグラフィックを表すコード、表示位置、サイズ、データおよび表示属性からなる請求項1に記載のFM多重放送受信機におけるデータ処理方法。
。
4. 外字符号集合に対する中間コードには、属性なしの外字符号集合に対する中間コードと属性ありの外字符号集合に対する中間コードがあり、属性なしの外字符号集合に対する中間コードは、属性なしの外字符号集合を表すコード、表示位置、文字サイズおよびデータからなり、属性ありの外字符号集合に対する中間コードは、属性ありの外字符号集合を表すコード、表示位置、文字サイズ、データ、フォント属性および表示属性からなる請求項1に記載のFM多重放送受信機におけるデータ処理方法。
5. ジオメトリック描画命令に対する中間コードには、点描画命令、直線描画

命令、長方形描画命令、多角形描画命令および円・円弧描画命令に対する中間コードがあり、各描画命令に対する中間コードは、描画命令の種類を表すコード、画素サイズおよびその描画命令を描くために必要な座標位置を含んでおり、描画命令を描くために必要な座標位置は、全て絶対座標で与えられる請求項1に記載5 のFM多重放送受信機におけるデータ処理方法。

6. (追加) 符号データを復号して中間コードを生成する際、復号された文字図形データの属性の有無を判別し、属性なしの中間コードと属性ありの中間コードとに分類することを特徴とする請求項1に記載のFM多重放送受信機におけるデータ処理方法。

10 7. (追加) 文字に対する中間コードには、属性なしの文字に対する中間コードと属性ありの文字に対する中間コードとがあり、属性なしの文字に対する中間コードは、属性なしの文字を表すコード、表示位置、文字サイズおよび文字コードからなり、属性ありの文字に対する中間コードは、属性ありの文字を表すコード、表示位置、文字サイズ、文字コード、フォント属性および表示属性からなる15 請求項6に記載のFM多重放送受信機におけるデータ処理方法。

8. (追加) 一層フォトグラフィックに対する中間コードには、属性なしの一層フォトグラフィックに対する中間コードと属性ありの一層フォトグラフィックに対する中間コードとがあり、属性なしの一層フォトグラフィックに対する中間コードは、属性なしの一層フォトグラフィックを表すコード、表示位置、サイズおよびデータからなり、属性ありの一層フォトグラフィックに対する中間コードは、属性ありの一層フォトグラフィックを表すコード、表示位置、サイズ、データおよび表示属性からなる請求項6に記載のFM多重放送受信機におけるデータ処理方法。

9. (追加) 外字符号集合に対する中間コードには、属性なしの外字符号集合に対する中間コードと属性ありの外字符号集合に対する中間コードがあり、属性なしの外字符号集合に対する中間コードは、属性なしの外字符号集合を表すコード、表示位置、文字サイズおよびデータからなり、属性ありの外字符号集合に対

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する中間コードは、属性ありの外字符号集合を表すコード、表示位置、文字サイズ、データ、フォント属性および表示属性からなる請求項6に記載のFM多重放送受信機におけるデータ処理方法。

10. (追加) ジオメトリック描画命令に対する中間コードには、点描画命令
5 、直線描画命令、長方形描画命令、多角形描画命令および円・円弧描画命令に対する中間コードがあり、各描画命令に対する中間コードは、描画命令の種類を表すコード、画素サイズおよびその描画命令を描くために必要な座標位置を含んでおり、描画命令を描くために必要な座標位置は、全て絶対座標で与えられる請求項6に記載のFM多重放送受信機におけるデータ処理方法。

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Amendment under PCT Article 34

International Application No. PCT/JP97/03702

1. Contents of Amendment

(1) Amendment to the description

On page 4, line 24 to page 5, line 8 of the description, "A method of processing data in . . . the intermediate code is decoded." is amended as follows:

"A method of processing data in an FM subcarrier data broadcasting receiver according to the present invention is characterized in that in displaying data constituting a reconstructed program, coded data is decoded according to a coding system corresponding to the coded data, and an intermediate code which can be decoded even if specifications peculiar to FM subcarrier data broadcasting are not understood is generated, to perform display control processing after the intermediate code is decoded.

Preferably, in generating an intermediate code subsequently to decoding coded data, the presence or absence of an attribute of decoded character/graphic data is judged, and according to the result of the judgment an intermediate code (corresponding to character/graphic data having no

attribute or corresponding to character/graphic data having an attribute), is generated."

(2) Claim 1 is amended as follows:

"A method of processing data in an FM subcarrier data broadcasting receiver, wherein in displaying data constituting a reconstructed program, coded data is decoded according to a coding system corresponding to the coded data, and an intermediate code which can be decoded even if specifications peculiar to FM subcarrier data broadcasting are not understood is generated, to perform display control processing after the intermediate code is decoded."

(3) Claims 6, 7, 8, 9 and 10 are added.

6. List of the Annexes

- (1) A replacing sheet of each of pages 4 and 5 of the description
- (2) Additional page 5/1
- (3) A replacing sheet of page 42 of the claims
- (4) Additional page 42/1
- (5) A replacing sheet of page 45
- (6) Additional pages 45/1, 45/2 and 45/3

time and labor are required to develop the receiver.

If the portions which relate to the specifications peculiar to FM subcarrier data broadcasting and the portions which do not relate thereto can be separated from each other, it is considered that the FM subcarrier data broadcasting receiver is easy to develop. In the conventional FM subcarrier data broadcasting receiver, however, the program analyzing unit directly relates even to processing relating to display. Therefore, the portions which relate to the specifications peculiar to FM subcarrier data broadcasting and the portions which do not relate thereto cannot be separated from each other in the configuration of the software.

An object of the present invention is to provide a method of processing data in an FM subcarrier data broadcasting receiver in which portions which relate to specifications peculiar to FM subcarrier data broadcasting and portions which do not relate thereto can be separated from each other in the configuration of software, and an FM subcarrier data broadcasting receiver is easy to develop.

Disclosure of Invention

A method of processing data in an FM subcarrier data broadcasting receiver according to the present

invention is characterized in that in displaying data constituting a reconstructed program, coded data is decoded according to a coding system corresponding to the coded data, and an intermediate code which can be decoded even if specifications peculiar to FM subcarrier data broadcasting are not understood is generated, to perform display control processing after the intermediate code is decoded.

Preferably, in generating an intermediate code subsequently to decoding coded data, the presence or absence of an attribute of decoded character/graphic data is judged, and according to the result of the judgment an intermediate code (corresponding to character/graphic data having no attribute or corresponding to character/graphic data having an attribute) is generated.

An intermediate code corresponding to a character includes an intermediate code corresponding to a character having no attribute and an intermediate code corresponding to a character having attributes. The intermediate code corresponding to the character having no attribute comprises a code representing the character having no attribute, a display position, a character size, and a character code, for example, and the

intermediate code corresponding to the character having attributes comprises a code representing the character having attributes, a display position, a character size, a character code, a font attribute, and a display attribute, for example.

An intermediate code corresponding to a one-layer photographic includes an intermediate code corresponding to a one-layer photographic having no

PATENT COOPERATION TREATY

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NOTIFICATION CONCERNING
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Date of mailing (day/month/year)
19 February 1999 (19.02.99)

International application No.	International filing date (day/month/year)
PCT/JP97/03702	14 October 1997 (14.10.97)

Applicant
SANYO ELECTRIC CO., LTD. et al

The International Bureau transmits herewith the following documents and number thereof:

_____ copy of the English translation of the international preliminary examination report (Article 36(3)(a))

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Sean Taylor

Telephone No.: (41-22) 338.83.38

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference K97-0879	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/JP97/03702	International filing date (day/month/year) 14 October 1997 (14.10.1997)	Priority date (day/month/year) 18 October 1996 (18.10.1996)
International Patent Classification (IPC) or national classification and IPC H04H 1/00		
Applicant SANYO ELECTRIC CO., LTD. et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.
<input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
These annexes consist of a total of <u>5</u> sheets.
3. This report contains indications relating to the following items:
I <input checked="" type="checkbox"/> Basis of the report
II <input type="checkbox"/> Priority
III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
IV <input type="checkbox"/> Lack of unity of invention
V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
VI <input type="checkbox"/> Certain documents cited
VII <input type="checkbox"/> Certain defects in the international application
VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 13 April 1998 (13.04.1998)	Date of completion of this report 18 January 1998 (18.01.1998)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the report

1. With regard to the elements of the international application:*

the international application as originally filed
 the description:

pages _____ 1-2,4-22 , as originally filed
 pages _____ , filed with the demand
 pages _____ 3,3/1 , filed with the letter of 17 September 1998 (17.09.1998)

the claims:

pages _____ 2-5 , as originally filed
 pages _____ , as amended (together with any statement under Article 19
 pages _____ , filed with the demand
 pages _____ 1,6-10 , filed with the letter of 17 September 1998 (17.09.1998)

the drawings:

pages _____ 1-14 , as originally filed
 pages _____ , filed with the demand
 pages _____ , filed with the letter of _____

the sequence listing part of the description:

pages _____ , as originally filed
 pages _____ , filed with the demand
 pages _____ , filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
 the language of publication of the international application (under Rule 48.3(b)).
 the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in written form.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority in written form.
 furnished subsequently to this Authority in computer readable form.
 The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims, Nos. _____
 the drawings, sheets/fig _____

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP97/03702

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

Replaced by Art. 3rd Amendment

CLAIMS

1. A method of processing data in an FM subcarrier data broadcasting receiver, wherein in displaying data constituting a reconstructed program, an eight bit code is decoded according to an eight bit coding system, and an intermediate code which can be decoded even if specifications peculiar to FM subcarrier data broadcasting are not understood is generated, to perform display control processing after the intermediate code is decoded.

2. The method of processing data in the FM subcarrier data broadcasting receiver according to claim 1, wherein an intermediate code corresponding to a character includes an intermediate code corresponding to a character having no attribute and an intermediate code corresponding to a character having attributes, the intermediate code corresponding to the character having no attribute comprising a code representing the character having no attribute, a display position, a character size, and a character code, and the intermediate code corresponding to the character having attributes comprising a code representing the character having attributes, a display position, a character size, a character code, a font attribute, and a display

PATENT COOPERATION TREATY

PCT

**NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

KAYAMA, Hideyuki
 9F, Shin-Osaka Maru Building Annex
 18-27, Higashinakajima 1-chome
 Higashiyodogawa-ku
 Osaka-shi
 Osaka 533
 JAPON

RECEIVED

MAR. 19. 1999

KAYAMA PATENT OFFICE

Date of mailing (day/month/year) 19 February 1999 (19.02.99)	
Applicant's or agent's file reference K97-0879	
International application No. PCT/JP97/03702	International filing date (day/month/year) 14 October 1997 (14.10.97)
Applicant SANYO ELECTRIC CO., LTD. et al	

IMPORTANT NOTIFICATION**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CN,US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

SG

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer Sean Taylor Telephone No. (41-22) 338.83.38
--	--

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference K97-0879	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/JP97/03702	International filing date (day/month/year) 14 October 1997 (14.10.1997)	Priority date (day/month/year) 18 October 1996 (18.10.1996)
International Patent Classification (IPC) or national classification and IPC H04H 1/00		
Applicant SANYO ELECTRIC CO., LTD. et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 5 sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 13 April 1998 (13.04.1998)	Date of completion of this report 18 January 1998 (18.01.1998)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP97/03702

I. Basis of the report

1. With regard to the elements of the international application:^{*}

the international application as originally filed
 the description:

pages _____ 1-2,4-22 , as originally filed
 pages _____ , filed with the demand
 pages _____ 3,3/1 , filed with the letter of 17 September 1998 (17.09.1998)

the claims:

pages _____ 2-5 , as originally filed
 pages _____ , as amended (together with any statement under Article 19
 pages _____ , filed with the demand
 pages _____ 1,6-10 , filed with the letter of 17 September 1998 (17.09.1998)

the drawings:

pages _____ 1-14 , as originally filed
 pages _____ , filed with the demand
 pages _____ , filed with the letter of _____
 the sequence listing part of the description:
 pages _____ , as originally filed
 pages _____ , filed with the demand
 pages _____ , filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
 the language of publication of the international application (under Rule 48.3(b)).
 the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in written form.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority in written form.
 furnished subsequently to this Authority in computer readable form.
 The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims, Nos. _____
 the drawings, sheets/fig. _____

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP97/03702

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

特許協力条約

US

PCT

国際調査報告

(法8条、法施行規則第40、41条)
[PCT18条、PCT規則43、44]

出願人又は代理人 の書類記号 K97-0879	今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220)及び下記5を参照すること。	
国際出願番号 PCT/JP97/03702	国際出願日 (日.月.年) 14.10.97	優先日 (日.月.年) 18.10.96
出願人(氏名又は名称) 三洋電機株式会社		

国際調査機関が作成したこの国際調査報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。
この写しは国際事務局にも送付される。

この国際調査報告は、全部で 2 ページである。

この調査報告に引用された先行技術文献の写しも添付されている。

1. 請求の範囲の一部の調査ができない(第I欄参照)。
2. 発明の単一性が欠如している(第II欄参照)。
3. この国際出願は、ヌクレオチド及び/又はアミノ酸配列リストを含んでおり、次の配列リストに基づき国際調査を行った。
 - この国際出願と共に提出されたもの
 - 出願人がこの国際出願とは別に提出したもの
 - しかし、出願時の国際出願の開示の範囲を越える事項を含まない旨を記載した書面が添付されていない
 - この国際調査機関が書換えたもの
4. 発明の名称は 出願人が提出したものと承認する。
 - 次に示すように国際調査機関が作成した。

5. 要約は 出願人が提出したものと承認する。
 - 第III欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により国際調査機関が作成した。出願人は、この国際調査報告の発送の日から1カ月以内にこの国際調査機関に意見を提出することができる。
6. 要約書とともに公表される図は、
第1図とする。 出願人が示したとおりである。 なし
 - 出願人は図を示さなかった。
 - 本図は発明の特徴を一層よく表している。

A. 発明の属する分野の分類（国際特許分類（IPC））

Int. C16 H04H1/00

B. 調査を行った分野

調査を行った最小限資料（国際特許分類（IPC））

Int. C16 H04H1/00, H04B1/16

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報 1926-1997年

日本国日本公開実用新案公報 1971-1997年

国際調査で使用した電子データベース（データベースの名称、調査に使用した用語）

C. 関連すると認められる文献

引用文献の カテゴリーエ	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X	J P, 8-125623, A (日本放送協会 外1名) 17. 5月. 1996 (17. 05. 96) (ファミリーなし) 第3頁左欄第26行目～第42行目	1
A	第3頁左欄第26行目～第42行目	2～5
A	J P, 8-251125, A (富士通テン株式会社) 27. 9月. 1996 (27. 09. 96) 第4頁右欄第38行目～第5頁左欄第5行目 (ファミリーなし)	1～5

 C欄の続きにも文献が列挙されている。 パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」特に関連のある文献ではなく、一般的技術水準を示すもの

「E」先行文献ではあるが、国際出願日以後に公表されたもの

「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献（理由を付す）

「O」口頭による開示、使用、展示等に言及する文献

「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの

「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの

「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの

「&」同一パテントファミリー文献

国際調査を完了した日

26. 12. 97

国際調査報告の発送日

13.01.98

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号100

東京都千代田区霞が関三丁目4番3号

特許庁審査官（権限のある職員）

畠中 博幸

印

5 J 9180

電話番号 03-3581-1101 内線 3536

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION
(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
 Office
 (Box PCT)
 Crystal Plaza 2
 Washington, DC 20231
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 04 June 1998 (04.06.98)	Applicant's or agent's file reference K97-0879
International application No. PCT/JP97/03702	Priority date (day/month/year) 18 October 1996 (18.10.96)
International filing date (day/month/year) 14 October 1997 (14.10.97)	
Applicant TOMIDA, Yoshikazu et al	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

13 April 1998 (13.04.98)

in a notice effecting later election filed with the International Bureau on:

2. The election was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer M. Sakai
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

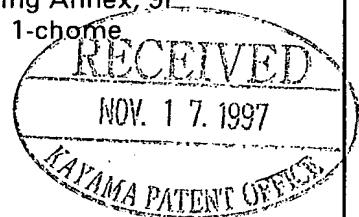
NOTIFICATION OF RECEIPT OF RECORD COPY

(PCT Rule 24.2(a))

From the INTERNATIONAL BUREAU

To:

KAYAMA, Hideyuki
 Shin-Osaka Maru Building Annex, 9F
 18-27, Higashinakajima 1-chome
 Higashiyodogawa-ku
 Osaka-shi
 Osaka 533
 JAPON



Date of mailing (day/month/year) 28 October 1997 (28.10.97)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference K97-0879	International application No. PCT/JP97/03702

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

SANYO ELECTRIC CO., LTD. (for all designated States except US)
 TOMIDA, Yoshikazu et al (for US)

International filing date : 14 October 1997 (14.10.97)
 Priority date(s) claimed : 18 October 1996 (18.10.96)
 : 19 February 1997 (19.02.97)
 Date of receipt of the record copy by the International Bureau : 24 October 1997 (24.10.97)
 List of designated Offices :
 National : CN, SG, US

ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

- time limits for entry into the national phase;
- confirmation of precautionary designations;
- requirements regarding priority documents.

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer: M. Sakai
	Telephone No. (41-22) 338.83.38

INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated in the Notification of Receipt of Record Copy (Form PCT/IB/301) by paying national fees and furnishing translations, as prescribed by the applicable national laws.

The time limit for performing these procedural acts is **20 MONTHS** from the priority date or, for those designated States which the applicant elects in a demand for international preliminary examination or in a later election, **30 MONTHS** from the priority date, provided that the election is made before the expiration of 19 months from the priority date. Some designated (or elected) Offices have fixed time limits which expire even later than 20 or 30 months from the priority date. In other Offices an extension of time or grace period, in some cases upon payment of an additional fee, is available.

In addition to these procedural acts, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most designated Offices do not issue reminders to applicants in connection with the entry into the national phase.

For detailed information about the procedural acts to be performed to enter the national phase before each designated Office, the applicable time limits and possible extensions of time or grace periods, and any other requirements, see the relevant Chapters of Volume II of the PCT Applicant's Guide. Information about the requirements for filing a demand for international preliminary examination is set out in Chapter IX of Volume I of the PCT Applicant's Guide.

GR and ES became bound by PCT Chapter II on 7 September 1996 and 6 September 1997, respectively, and may, therefore, be elected in a demand or a later election filed on or after 7 September 1996 and 6 September 1997, respectively, regardless of the filing date of the international application. (See second paragraph above.)

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

CONFIRMATION OF PRECAUTIONARY DESIGNATIONS

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date. If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with an indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.

REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents the following is recalled.

Where the priority of an earlier national (i.e., national or regional) application is claimed, the applicant must submit a copy of the said national application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date (Rule 17.1).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit.

It is recalled that, where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.

If the priority document concerned is not submitted to the International Bureau before the expiration of the 16-month time limit, or if the request to the receiving Office to transmit the priority document has not been made (and the corresponding fee, if any, paid) before the expiration of this time limit, any designated State may disregard the priority claim.

PENT COOPERATION TREA

From the INTERNATIONAL BUREAU

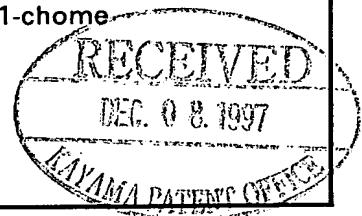
PCT

**NOTIFICATION CONCERNING
SUBMISSION OF PRIORITY DOCUMENTS**

(PCT Administrative Instructions, Section 411)

To:

KAYAMA, Hideyuki
 Shin-Osaka Maru Building Annex, 9F
 18-27, Higashinakajima 1-chome
 Higashiyodogawa-ku
 Osaka-shi
 Osaka 533
 JAPON



Date of mailing (day/month/year) 02 December 1997 (02.12.97)			
Applicant's or agent's file reference K97-0879	IMPORTANT NOTIFICATION		
International application No. PCT/JP97/03702	International filing date (day/month/year) 14 October 1997 (14.10.97)	Priority date (day/month/year) 18 October 1996 (18.10.96)	
Applicant SANYO ELECTRIC CO., LTD. et al			

The applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to the following application(s):

<u>Priority application No.:</u>	<u>Priority date:</u>	<u>Priority country:</u>	<u>Date of receipt of priority document:</u>
8/275757	18 Oct 1996 (18.10.96)	JP	01 Dec 1997 (01.12.97)
9/34507	19 Feb 1997 (19.02.97)	JP	01 Dec 1997 (01.12.97)

The International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Sean Taylor

Telephone No.: (41-22) 338.83.38

PENT COOPERATION TRE

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

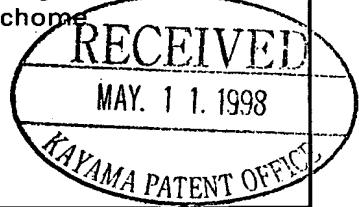
(PCT Rule 47.1(c), first sentence)

Date of mailing (day/month/year) 30 April 1998 (30.04.98)		
Applicant's or agent's file reference K97-0879		
International application No. PCT/JP97/03702	International filing date (day/month/year) 14 October 1997 (14.10.97)	Priority date (day/month/year) 18 October 1996 (18.10.96)
Applicant SANYO ELECTRIC CO., LTD. et al		

From the INTERNATIONAL BUREAU

To:

KAYAMA, Hideyuki
 9F, Shin-Osaka Maru Building Annex
 18-27, Higashinakajima 1-chome
 Higashiyodogawa-ku
 Osaka-shi
 Osaka 533
 JAPON

**IMPORTANT NOTICE**

- Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
CN,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

- The following designated Offices have waived the requirement for such a communication at this time:

SG

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

- Enclosed with this Notice is a copy of the international application as published by the International Bureau on 30 April 1998 (30.04.98) under No. WO 98/18229

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer J. Zahra Telephone No. (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

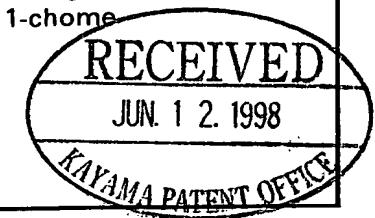
**INFORMATION CONCERNING ELECTED
OFFICES NOTIFIED OF THEIR ELECTION**

(PCT Rule 61.3)

From the INTERNATIONAL BUREAU

To:

KAYAMA, Hideyuki
 9F, Shin-Osaka Maru Building Annex
 18-27, Higashinakajima 1-chome
 Higashiyodogawa-ku
 Osaka-shi
 Osaka 533
 JAPON



Date of mailing (day/month/year) 04 June 1998 (04.06.98)		
Applicant's or agent's file reference K97-0879	IMPORTANT INFORMATION	
International application No. PCT/JP97/03702	International filing date (day/month/year) 14 October 1997 (14.10.97)	Priority date (day/month/year) 18 October 1996 (18.10.96)
Applicant SANYO ELECTRIC CO., LTD. et al		

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

National :CN,US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

National :SG

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer: M. Sakai Telephone No. (41-22) 338.83.38
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